



barker matched filter

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[Optimum mismatched filters for sidelobe suppression](#)

MH ACKROYD, F GHANI - IEEE Transactions on Aerospace and Electronic Systems, 1973 - csa.com

... A **filter** which completely suppresses the range sidelobes of a 13-element **Barker** sequence is only 0.2 dB worse than a **matched filter** in noise.

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... , BC Barish, D Barker, C Barker-Patton, M Barnes, ... - Physical Review D, 2004 - APS ... Balasubramanian,7 S. Ballmer,14 BC Barish,13 D. Barker,15 C. Barker-Patton,15 M ... In this expression,  $x(t)$  is the **matched filter** response to the  $a_{50}$  waveform hcl ...

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PB Barker, DO Hearshen, MD Boska - Magnetic Resonance in Medicine, 2001 - doi.wiley.com

... **Barker** et al. ... the higher field strength could be improved by using a larger linebroadening, closer to that of the metabolite linewidth (ie, a **matched filter** ( ...

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[The performance of a direct-sequence spread ultrawideband system in the presence of multipath,...](#)

JR Foerster - Ultra Wideband Systems and Technologies, 2002. Digest of ..., 2002 - ieeexplore.ieee.org

... Then the sampled output of the pulse **matched filter** can be written as The multiple access interference can be written as  $y(m + p 7 + l, Y_m, p = 1, n, p ...$

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[Spread spectrum modem - group of 2 »](#)

SM Chow, PF Lee... - US Patent 4,481,640, 1984 - Google Patents

... The output signal of each **matched filter** is comprised of the auto-correlation function of the **Barker** or other sequence modulating the subcarrier. FIG. ...

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[An introduction to \*\*matched\*\* filters](#)

G Turin - Information Theory, IEEE Transactions on, 1960 - ieeexplore.ieee.org

... II. DEFINITION OF A MATCHED FILTER If  $s(t)$  is any physical waveform, then a **filter** which is **matched** to  $s(t)$  is, by definition, one with impulse response ...

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[High speed bidirectional digital cable transmission system - group of 2 »](#)

TM Paff, H Graham - US Patent 5,553,064, 1996 - Google Patents

... The baseband signals are then applied through a trans-versal **matched Barker** code filter 102 which is provided coefficients for the 64 stages of the **filter** and ...

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Optimal peak sidelobe filters for biphase pulse compression - group of 3 »

JM Baden, MN Cohen - Radar Conference, 1990., Record of the IEEE 1990 ... , 1990 - ieeexplore.ieee.org

... 2 > s. (13) Page 3 20 Bit MPS Code **Matched Filter** 30 20 i ... Figure 2 shows sidelobe performance as a function of filter length for the 13 bit **Barker** code for ...

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A new algorithm to optimize **Barker** code sidelobe suppressionfilters - group of 5 »

CX Hua, J Oksman - Aerospace and Electronic Systems, IEEE Transactions on, 1990 - ieeexplore.ieee.org

... A New Algorithm to Optimize **Barker** Code Sidelobe Suppression Filters Binary coding waveform sidelobe reduction after **matched** filtering is an active research ...

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Event driven interface for a system for monitoring and controlling a data communications network - group of 3 »

PC Hershey, KJ Barker, CS Lingafelt Sr, JG ... - US Patent 5,365,514, 1994 - Google Patents

... FOR MONITORING AND CONTROLLING A DATA COMMUNICATIONS NETWORK [75]

Inventors: Paul

C. Hershey, Manassas, Va.; Kenneth J. **Barker**, Gary; Charles ... FILTER MEMORY RAM ...

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